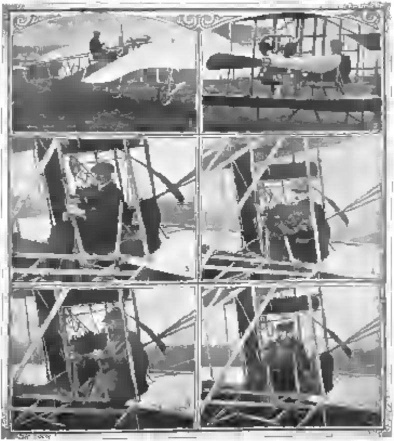
FLIGHT

First Aero Weekly in the World.

A Journal devoted to the Interests, Practice and Progress of Aerial Locomotion and Transport.

OFFICIAL ORGAN OF THE AERO CLUB OF THE UNITED KINGDOM.

No. 57. (No. 5, Vol. II.) | JANUARY 29, 1910. | Registered at the G.P.O. as a Newspaper. | Weekly, Price 1d. Post Free 1½d.



[illegible]

GERMAN FLYERS.—(1) The [illegible] monoplane. (2) the [illegible] biplane. (3) Thaddäus Robl. (4) Paul Lange. (5) [illegible] Thelen in his Wright machine. (6) [illegible], the instructor of the German Wright Company.

AEROPLANES AND THE LAW.

By A BARRISTER-AT-LAW

The legal position of the flying man is a matter which [illegible] well provide food for reflection [illegible] lawyer. At present, of course, there is no suggestion of legislative interference with those who have solved the problem of flight. [illegible] the many legal problems which [illegible] in this connection [illegible] by no means an [illegible] problem.

Take, first, the question of trespass. [illegible] land [illegible] trespass. [illegible] of trespass there [illegible] be [illegible]. It has often been held that [illegible] of trespass which [illegible]. It has also been decided that [illegible] and [illegible] are [illegible] somewhat nearer to the maxim [illegible] the High Court [illegible] a trespass [illegible] "[illegible] [illegible] [illegible] under [illegible] — [illegible] the [illegible] the [illegible]." But [illegible]

[illegible] damage [illegible] damage [illegible] injury [illegible] [illegible] when the field [illegible] than [illegible] telegraph wires [illegible] all such [illegible] responsible. Finally [illegible] [illegible] person [illegible] modern [illegible] [illegible] been [illegible]

As the aeroplane [illegible] and [illegible] are [illegible] [illegible] catastrophe [illegible]

[illegible] of the owners of [illegible] aerodrome [illegible]. It is submitted that the [illegible] should be [illegible] if the injured person had paid [illegible] a particular enclosure in order to view the flight [illegible] going to such a place [illegible] accident. [illegible] at the time of injury the [illegible] injured was walking [illegible] public [illegible] [illegible] aeroplane [illegible] trespass. [illegible] having dealt with [illegible] [illegible] warning [illegible] [illegible] [illegible] [illegible]

[illegible] the [illegible] The control [illegible] [illegible] must [illegible]

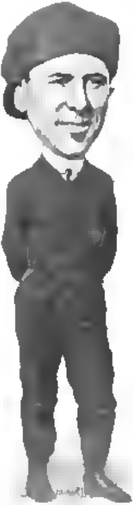
With these few words we must [illegible] of flight to the [illegible] who [illegible] Peace [illegible]

◆ ◆ ◆ ◆

Aeronautical Classics.

A [illegible] which has just been undertaken by the Aeronautical Society is the publication [illegible] which [illegible] originals are very rare. They will [illegible] will be fully illustrated, and contain biographical [illegible] on the various authors and [illegible] also dealing with Sir Geo. Cayley and [illegible] will appear in March [illegible] will probably be issued [illegible] the following order: [illegible] Walker [illegible] Glanville [illegible] and [illegible] Francis Lana, [illegible] Leonardo da Vinci. No. 5 will contain the writings on flight matters by [illegible] which have been [illegible] will be [illegible].

FLIGHT PIONEERS.



MR. A. V. ROE

FIRST FLIGHT IN AUSTRALIA

Mr. C[illegible] Defries [illegible] Australia [illegible] Wright [illegible] Sydney, N.S.W., on December 9th [illegible]

[illegible] Sydney, N.S.W. [illegible] accomplished [illegible] plane [illegible] Australia [illegible] was having [illegible]

Further [illegible] to hand [illegible] Mr. [illegible] the young aviator [illegible] twenty-four years of age [illegible]. The aeroplane [illegible] Wilbur Wright [illegible] construction [illegible] somewhat [illegible] of going off [illegible] the starting place [illegible] usual with these machines [illegible] a length [illegible] when the [illegible] had to [illegible] the motor was performing [illegible] found [illegible] fairly [illegible] place.

The [illegible] a lot of [illegible] have [illegible] the ground.

On [illegible] another [illegible] was [illegible] when Mr. Defries took [illegible] passenger Mr. C. S. Magennis, a well-known Australian [illegible] long flight was again impossible [illegible] of running perfectly [illegible] there [illegible]

Mr. [illegible] was educated [illegible] University College, London [illegible] the works of Messrs. [illegible] Peebles, and Co., Edinburgh. [illegible] Australia, where [illegible] had made a [illegible] in the [illegible] world and [illegible] in the [illegible] and motorcycle [illegible] was [illegible] Englishman [illegible]

Mr. C[illegible] De[illegible] Wright [illegible] This shows [illegible] in which Mr. Defries covered [illegible] the [illegible] were [illegible] blinded, nothing [illegible] of an accident.

❧ ❧ ❧ ❧

Ae.C.F. Pilots Aviators.

[illegible] date [illegible] of France [illegible] awarded twenty [illegible] pilot-aviator [illegible] Following list [illegible] the number of the certificates and the name [illegible] which the qualifying flights were made.

[illegible] Blériot [illegible] Curtiss [illegible] Delagrange (Voisin) [illegible] Esnault-Pelterie, R.E.P. [illegible] H. Farman [illegible] M. Farman [illegible] Gobron (Voisin) [illegible] de Lambert (Wright) [illegible] Paulhan [illegible] (Voisin) [illegible] Dumont (Santos-Dumont) [illegible] (Wright) [illegible] (Wright) [illegible] Sanchez-Besa [illegible] (Blériot) [illegible] Mollien (Blériot) [illegible] Aubrun (Blériot) [illegible] Kolls (Wright) [illegible] Mortimer Singer, H. Farman [illegible] Molon (Blériot) [illegible] de Lesseps (Blériot) [illegible] Santos-Dumont (Blériot).

[illegible] machines, seven [illegible] Wright, two on Henry Farman, and [illegible] Santos-Dumont, and [illegible] Farman.

DESIGN AND CONSTRUCTION OF AEROPLANES

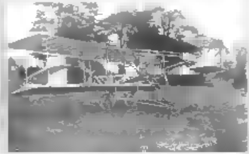
By J. P. CHITTENDEN and L. H. ROBINSON

Continued from page [illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

Others again rely on a special form [illegible] of the main planes [illegible], or by setting the planes at a dihedral angle. The setting up [illegible] planes of an angle is open to objection, because when the [illegible] in the machine is [illegible], [illegible] tends to increase rather than diminish the instability.

The gyroscope, perhaps, appeals to one as the most [illegible] and practical device for the purpose [illegible] automatic stabiliser which is a combination of a pendulum and a gyroscope [illegible] [illegible] [illegible] disadvantages of [illegible] gyro [illegible] [illegible] [illegible] of pendulum.

Constructional Materials.—For [illegible] constructional purposes [illegible] should be kept as low as possible [illegible] for the [illegible] and [illegible] steel or aluminium should [illegible] [illegible] fittings.

For large members where great strength is required, [illegible] [illegible]. For short [illegible] [illegible] [illegible] where a very light wood is required [illegible] [illegible].

TABLE [illegible]—PROPERTIES OF WOODS.

Names of Timber (Specimen [illegible] square)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
English oak	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
American white [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] mahogany	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
English ash	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
American ash	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Spruce	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] pine	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]						[illegible]		[illegible]		

[illegible] [illegible] [illegible] may [illegible] employed. [illegible] [illegible] [illegible] disadvantage [illegible] [illegible] [illegible] [illegible]. Wooden [illegible] and [illegible] considerably [illegible] [illegible] [illegible] below spars [illegible] [illegible].

The [illegible] [illegible] possible [illegible] [illegible] [illegible] of a double [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] of fish-plates. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] usually made [illegible] [illegible] for [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] breaking strength [illegible] [illegible].

Aluminium and [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

In Table [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

Chassis.—[illegible] [illegible] [illegible] [illegible] [illegible] the machine [illegible] [illegible] [illegible] designs [illegible] [illegible] [illegible] [illegible] [illegible] wheels are employed.

[illegible] [illegible] may be [illegible] [illegible] [illegible] made of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] steel [illegible].

The [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] the condition [illegible] [illegible]:—

[illegible]

where [illegible] = total weight of machine.

[illegible] = [illegible] [illegible] [illegible] [illegible].

[illegible] = mean [illegible] [illegible] [illegible] [illegible].

T = [illegible] [illegible] of machine.

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

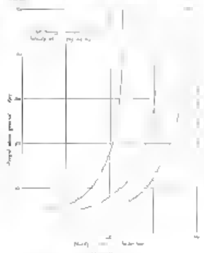


FIG. [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

* * *

Another British-made Aeroplane Fabric

We have received [illegible] [illegible] [illegible] [illegible] Sons a sample of their British-made aeroplane fabric with which they are already obtaining a considerable amount of success. The [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] rubber [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

GREAT BRITAIN'S POSITION IN AVIATION.

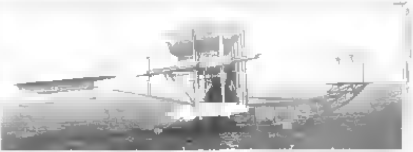
[illegible]

[illegible]

[illegible]

Flying as a Sport

[illegible]



[illegible] a photograph [illegible] October [illegible]

The Aero Club of the United Kingdom

OFFICIAL NOTICES TO MEMBERS

Committee Meeting

A meeting of the Committee was held on Tuesday [illegible] when there were present:—[illegible] in the chair, [illegible] Professor [illegible] Mr. J. T. [illegible] Moore-Brabazon, [illegible] and [illegible]

New Members.—The following new members were elected:—

M. A. Adam, B.Sc.
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
John [illegible]
[illegible]
[illegible]
[illegible]
James [illegible]
[illegible]

Library

[illegible] following books:—

[illegible]
[illegible]
[illegible]

The Committee [illegible]

[illegible] Aeronautical Maps

[illegible]

Aero Exhibition at Olympia.

[illegible]

[illegible]

[illegible] Piccadilly, London, W.

Members wishing to [illegible] with the [illegible] Club.

Monthly Dinner

[illegible]

[illegible]

[illegible]

Eastchurch Flying Ground.

[illegible]

[illegible]

[illegible]

Railway Arrangements.—The following reduced fares have [illegible]

[illegible]

[illegible]

E. CLAREMONT C[illegible],
[illegible] E. PERRIN

[illegible]

⁂

PROGRESS OF FLIGHT ABOUT THE COUNTRY

[illegible]

[illegible] Aero Club [illegible]

[illegible]

[illegible]

[illegible] University Aero [illegible]

[illegible]

[illegible]

[illegible]

[illegible] Aero Club [illegible]

[illegible]

MILITARY ASPECT OF DIRIGIBLE BALLOONS AND AEROPLANES.

By COL. CAPPER, R.E.

(Concluded from page [illegible].)

[illegible]

[illegible] and [illegible] large numbers of [illegible]

Accordingly, [illegible] and [illegible] that well suited [illegible] without [illegible] the [illegible] useful [illegible] of [illegible]

No [illegible] which [illegible] that [illegible] the [illegible]

"[illegible] the [illegible]

A [illegible] in obtaining [illegible] dependent [illegible]

The [illegible]

1. [illegible] the [illegible] of the gas.

Neither of these [illegible] balloon or the aeroplane.

[illegible] Balloons [illegible]

[illegible]

[illegible]

They [illegible]

The [illegible]

[illegible]

1. [illegible]
2. [illegible]
3. The [illegible]
4. [illegible]

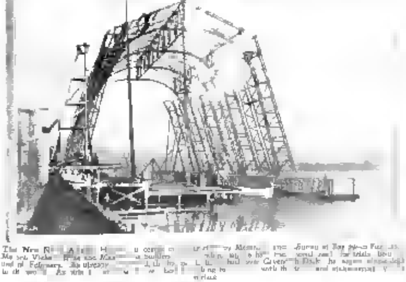
What [illegible]

[illegible]

❀ ❀ ❀ ❀

The Los Angeles Meeting.

On Wednesday of last week M. Paulhan [illegible] the U.S. [illegible] Henry [illegible] the [illegible] They were [illegible] altogether [illegible] formed the target. During [illegible] was 50 ft. [illegible] the meeting, and [illegible] the programme [illegible] Curtiss [illegible] [illegible] necessary [illegible] share, [illegible] [illegible]



The New [illegible] Airship Shed [illegible] Messrs. Vickers [illegible] and Maxim [illegible] Sons [illegible] end of February. [illegible] Cavendish Dock [illegible] in the world. [illegible] in place.

AVIATION NEWS OF THE WEEK.

[illegible] Flies Again.

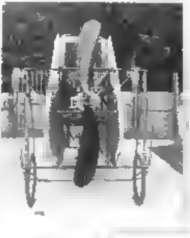
[illegible] has waited [illegible]

A Flying Ground near London.

[illegible] school [illegible] proved [illegible] distance [illegible] been used [illegible] thought [illegible] also making [illegible] M. Armstrong Drexel [illegible] well known American [illegible]

A Monoplane at Northampton.

[illegible] Col. [illegible] and Mr. G[illegible]



[illegible]

Ae.C.F. Official Flying Week.

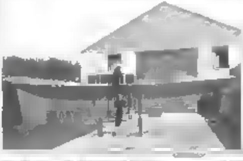
[illegible] have decided [illegible]

Van den Born Flies Across Country.

[illegible] Souppes [illegible] M. Van den Born secured the [illegible] good [illegible] wind was blowing and the snow was falling [illegible]

Mlle. Dutrieu Has a Fall.

[illegible] Mlle. Hélène [illegible] practising on the [illegible] by the [illegible]



[illegible] photograph [illegible]

[illegible] Flies for an Hour.

Yet another aviator can claim to have flown for more than an hour, for on the 21st inst. M. [illegible], on his Henry Farman machine, was at Chalons able to keep up for this time, during which he traversed 65 kilomet. During most of the time he flew at a height of about 25 metres.

[illegible] Has a Fall.

After his many successes at Ulm, [illegible] was the victim of an unfortunate mishap on the [illegible] inst. He was flying at a height of 80 metres when by some mishap he [illegible] the [illegible] gear. The machine dropped suddenly down to within five metres from the ground, and then came into contact with a telegraph wire and rebounded on to the railway line when the [illegible] and was considerably damaged. Fortunately the aviator escaped with nothing worse than a knock on the face. A public subscription is being got up in Ulm to provide the aviator with a new machine.

Sommer Testing.

[illegible] Sommer has not yet [illegible] any [illegible] or long distance on the new biplane of his own design. He has made short trial trips of [illegible] almost every day and has been experimenting with weight carrying. On some of his trials he has carried as much as [illegible] on the machine. It is stated that Baron de Caters has been so impressed with the machine that he has ordered two.

Molon at Havre.

On [illegible] M. Molon made three flights at Havre, [illegible] being 42 kilomet., while [illegible]

Another Racing Man Flying.

M. [illegible], who will be remembered [illegible] Renault [illegible] big car races [illegible] the latest [illegible] he having purchased a Henry Farman [illegible]. [illegible] the majority [illegible] Henry Farman other pupils, M. [illegible] was short. At his second attempt by himself he flew two circuits, then the time increased [illegible] the next lesson while [illegible] was covered.

Ae.C. of France Enters Gordon-Bennett Events.

The Aero Club of France [illegible] to the Aero Club of America its [illegible] team of three challengers [illegible] for the Gordon-Bennett Balloon Cup and the Gordon-Bennett [illegible] Cup.

French Army and Aeroplanes.

[illegible] orders for aeroplanes [illegible] by the French War Office, Capt. Marie and [illegible] Bellenger [illegible] have been [illegible] in [illegible] to be [illegible] in the manipulation of [illegible] aeroplanes. They will be taught to [illegible] machines, one a [illegible] biplane of the same Chenu type fitted [illegible] with a 50-h.p. Anzani motor and the other a new model having two seats, [illegible] No. XII. machine. This [illegible] fitted with a 50-h.p. Gnome [illegible]

Juvisy Under Water.

[illegible] has been out of the question [illegible] the past week at Port Aviation as the flying ground has suffered severely from the recent floods, and the track has been more suitable for motor boat [illegible] than for flying, the water being several feet deep in parts. One or two aviators fortunately managed to get [illegible] their machines to [illegible] before the flood, but those which did not are in a [illegible] position at present.

Capt. Engelhard at Work Again.

Having recovered from the effects of his accident just before Christmas, Capt. Engelhard has recommenced his trials with the Wright machine recently purchased by the German Government. He made several short flights at Johannisthal on the [illegible] inst.

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AIRSHIP AND BALLOON NEWS.

"Col. Renard" Ready Again.

At the beginning of the week the airship "Col. Renard" was reinflated at Beauval where the Astra Company have been making some modifications. As soon as the weather is favourable an attempt will be made to [illegible] the five hours endurance test required by the military authorities before they will take over the vessel.

"Zodiac III" Wins Three Prizes.

The Aero Club of France have awarded to the "Zodiac III," belonging to Count de la Vaulx, the [illegible] prizes, promoted under the [illegible] given by the Minister of Public Works. The first, of 4,000 francs, was for the dirigible [illegible] the greatest distance from Paris to [illegible] the second of the same [illegible] the [illegible] longest distance over a closed circuit, while the third, of 1,000 francs, was for the dirigible of less than [illegible] cubic metres which [illegible]

Trials with "Gross III."

A series of trials were carried out with the new German dirigible "Gross III" on the [illegible] Rising from Tegel on the morning [illegible] a height of 500 metres [illegible] through over Doberitz and the airship [illegible] landed [illegible] snowstorm. In the afternoon [illegible] again went up and cruised for some time over the [illegible] Palace at Berlin and [illegible] to Brandenburg [illegible]

Crossing the Irish Channel.

[illegible] with the object of making a trip from [illegible] England, a feat which [illegible] has only been successfully performed once previously. Unfortunately while preparations were being made to [illegible] the balloon was caught by a sudden gust of wind with the result that the envelope was badly torn and [illegible] the abandonment of the project for the time being.

Fate of Andrée Expedition.

The news [illegible] from Canada with regard to the finding of a balloon at [illegible] Lake, which it is believed was used by M. Andrée in [illegible] fated [illegible] to the Pole has induced the Swedish Government to send a message to the district to inquire [illegible] and see if there is any truth in the report that the explorer was killed by Eskimos.

CORRESPONDENCE.

**** The name and address of the writer [illegible] MUST [illegible] correspondence [illegible] queries.*

Correspondents asking questions relating to articles which they have read in FLIGHT, would much facilitate our work of reference by kindly mentioning the volume and page in their letters.

[illegible]

STABILITY OF THE CLARKE GLIDER.

[illegible] The [illegible] January [illegible] the small plane [illegible]

[illegible]

T. W. K. CLARKE.

MODEL MONOPLANE.

[illegible] model monoplane [illegible]

[illegible]

[illegible]

[illegible]

designs and [illegible] Winding [illegible]

[illegible]

[illegible]

[illegible] Canadian [illegible] When a better [illegible]

For [illegible]

[illegible] Messrs. Williams and [illegible]

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[illegible]

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Kensington. [illegible]

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[illegible]

T[illegible] F[illegible] M[illegible] D[illegible]

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